Substitute for form 1449/PTO

Sheet

## FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary) of 1

Complete if Known				
Application Number	10/676,850			
Filing Date	September 30, 2003			
First Named Inventor	Nicholas M. RYAN			
Art Unit	2435			
Examiner Name	Paliwal, Yogesh			
Attorney Docket Number	2222 5440000			

			U.S. PATENT DO		
Examiner Cite Initials No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
	Number-Kind Code <sup>2 (If Known)</sup>	MM-DD-1111	Applicant of Cited Document	or Relevant Figures Appea	
	USI	5,535,375	07-09-1996	Eshel et al.	
	US2	5,655,119	08-05-1997	Davy	
	US3	5,661,806	08-26-1997	Nevoux et al.	
	US4	5,732,265	03-24-1998	Dewitt et al.	
	US5	5,790,790	08-04-1998	Smith et al.	
	US6	5,813,009	09-22-1998	Johnson et al.	
	US7	5,970,502	10-19-1999	Salkewicz et al.	
	US8	5,999,907	12-07-1999	Donner	
	US9	6,014,730	01-11-2000	Ohtsu	
	US10	6,069,057	05-30-2000	Richards	
	US11	6,085,323	07-04-2000	Shimizu et al.	
	US12	6,101,507	08-08-2000	Cane et al.	
	US13	6,122,630	08-19-2000	Strickler et al.	
	US14	6,134,660	10-17-2000	Boneh et al.	
	US15	6,134,664	10-17-2000	Walker	
	US16	6,212,561 B1	04-03-2001	Sitaraman et al.	
	US17	6,223,285 B1	04-24-2001	Komuro et al.	
	US18	6,226,618 B1	05-01-2001	Downs et al.	
	US19	6,260,040 B1	07-10-2001	Kauffman et al.	
	US20	6,308,273 B1	10-23-2001	Goertzel et al.	

			REIGN PATENT DO			_
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages,	1
Initials*	No.		MM-DD-YYYY	Applicant of Cited Document	Column	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (if known)			s, Lines	T <sup>6</sup>
	FP1	EP 0 913 967 A2	05-06-1999	Sun Microsystems, Inc.		
	FP2	EP 1 107 504 B1	06-13-2001	Benayoun et al.		
	FP3	EP1324565 A1	07-02-2003	Ouye et al.	l	
	FP4	WO 96/41288 A1	12-19-1996	E-Systems Inc.		
	FP5	WO 01/77783 A2	10-18-2001	Sony Pictures Digital Entertainment Inc.		П
	FP6					
	FP7					
	FP8					
	FP9					

Examiner	Date	
Signature	Considered	

\*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and \*E-AVMINES\*. Institut is reserved considered, whether or not oldsfor is in conformance with MPEP 000. Draw like through clatter in find in conformance and not considered include copy of this of mirrh erec commonliants in spliciant. \*Applicant single classification designation institute objections.\*3 "See Korke Codes Codes and the common of the common of the code o English language Translation is attached.

antigrain projudies (institution is attached.)

This condection of intermitoria is equipment by 3 CFR 1.37 and 1.88. The information is required to obtain or retain a bonefit by the public which is to fire (and intermitorial institution) of the public which is but fire (and intermitorial institution) of the public which is but fire (and intermitorial institution) of the public which is but fire (and intermitorial institution) of the public which is but fire (and institution) of the public which is the first which is the public which which is the public which which is the public which is the public which is the public which which is the public which which is the public which is the public which is the public which which is the public which is the public which is the public whi

Substitute for form 1449/PTO

## SEPTION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 6

Complete if Known					
Application Number	10/676,850				
Filing Date	September 30, 2003	A.,			
First Named Inventor	Nicholas M. RYAN				
Art Unit	2435				
Examiner Name	Paliwal, Yogesh				
Attorney Docket Number	2222.5440000				

11024

			U.S. PATENT DO	CUMENTS		
Examiner Cite Initials No.		Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
initials	No.	Number-Kind Code <sup>2 (If Known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Pessages or Relevant Figures Appear	
	US21	6,332,025 B2	12-18-2001	Takahashi et al.		
	US22	6,343,316 B1	01-29-2002	Sakata		
	US23	6,349,337 B1	02-19-2002	Parsons et al.		
	US24	6,357,010 B1	03-12-2002	Viets et al.		
	US25	6,393,420 B1	05-21-2002	Peters		
	US26	6,446,090 B1	09-03-2002	Hart		
	US27	6,529,956 B1	03-04-2003	Smith et al.		
	US28	6,557,039 B1	04-29-2003	Leong et al.		
	US29	6,587,946 B1	07-01-2003	Jakobsson		
	US30	6,611,599 B2	08-26-2003	Natarajan		
	US31	6,678,835 B1	01-13-2004	Shah et al.		
	US32	6,711,683 B1	03-23-2004	Laczko et al.		
	US33	6,801,999 B1	10-05-2004	Vankatesan et al.		
	US34	6,807,534 B1	10-19-2004	Erickson		
	US35	6,810,389 B1	10-26-2004	Meyer		
	US36	6,826,698 B1	11-30-2004	Minkin et al.		
	US37	6,865,555 B2	03-08-2005	Novak		
	US38	6,687,822 B1	02-03-2004	Jakobsson		
	US39	6,877,136 B2	04-05-2005	Bess et al.		
	US40	6,907,034 B1	06-14-2005	Begis		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code <sup>2</sup> Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т	
	FP10					L	
	FP11					L	
	FP12					Г	
	FP13					П	
	FP14					Г	
	FP15						
	FP16						
	FP17					Г	
	FP18					Г	

Examiner	 Date	
Signature	Considered	

\*EXAMINE: Initial if reference considered, whether or not obtains in a nonformance with MEPE 800. Due the through dataset in the concentration of nonadeleved inclined project bits from with near communication to applicate in large colorisate surgice colorisate colorisates. Open 3. See Architect Coloris of USPTO Patient Documents at view using one of MEPE 901.04. "Either Office has issued they content by incline the patient object of See Architect Colorisates and the content by inclined to the patient object of the patient object of the patient object of the patient object of colorisates and object of colorisates and the patient object of the patient object of the patient object of the patient object of colorisates and the patient object of the patient object o

English angingsing (implication is attended.)

19 of the process o

_						Equivalent of Form PTO/SE/08a (0
Substitute for form 1449/PTO		Complete if Known				
	EIDET 6	un	31 EK	MENTIAL	Application Number	10/676,850
					Filing Date	September 30, 2003
INFORMATION DISCLOSURE		First Named Inventor	Nicholas M. RYAN			
				APPLICANT	Art Unit	2435
	(Us	se as r	any sh	eets as necessary)	Examiner Name	Paliwal, Yogesh
S	Sheet	3	of	6	Attorney Docket Number	2222.5440000

Examiner	Cite	Document Number	U.S. PATENT Do Publication Date	Name of Patentee or	Pages, Columns, Lines,
Initials No.1		MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages	
	Number-Kind Code <sup>2 (FKnown)</sup>			or Relevant Figures Appea	
	US41	6,944,183 B1	09-13-2005	Iyer et al.	
	US42	6,950,941 B1	09-27-2005	Lee et al.	
	US43	6,950,943 B1	09-27-2005	Bacha et al.	
	US44	6,968,060 B1	11-22-2005	Pinkas	
	US45	6,971,018 B1	11-29-2005	Witt et al.	
	US46	6,978,377 BI	12-20-2005	Asano et al.	
	US47	6,988,133 B2	01-17-2006	Zavalkovsky et al.	
	US48	6,988,199 B2	01-17-2006	Toh et al.	
	US49	7,003,661 B2	02-21-2006	Beattie et al.	
	US50	7,035,910 B1	04-25-2006	Dutta et al.	
	US51	7,046,807 B2	05-16-2006	Hirano et al.	
	US52	7,058,696 B1	06-06-2006	Phillips et al.	
	US53	7,096,266 B2	08-22-2006	Lewin et al.	
	US54	7,134,041 B2	11-07-2006	Murray et al.	
	US55	7,146,498 B1	12-05-2006	Takechi et al.	
	US56	7,177,427 B2	02-13-2007	Komuro et al.	
	US57	7,181,017 B2	02-20-2007	Nagel et al.	
	US58	7,194,764 B2	03-20-2007	Martherus et al.	
	US59	7,203,968 B2	04-10-2007	Asano et al.	
	US60	7,219,230 B2	05-15-2007	Riedel et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	FP19					
	FP20					
	FP21					
	FP22					
	FP23					
	FP24					
	FP25					
	FP26					L
	ED27	1	1		1	ı <sup>-</sup>

Examiner	Date	
Signature	Considered	

EXAMNER: Initial if reference considered, whether or not clastion is in conformance with MPEP 609. Draw line through clastion if not in conformance and not considered, include copy of this form with next communication to applicant; sunque clastion designation number (options); <sup>1</sup> See Kinds Cobsis of USPTO Patent Observable, which is supported to the communication of the property of the Communication of the patent documents at www.strag. over MPEP 901-401. <sup>2</sup> there office the issued the document, by the two-letter cook (MPO Standard ST.3), <sup>3</sup> For Juprame patent documents, the including on the Optional Construction of the companies patent documents, the including on the Optional Construction of the major of the Emporer must proceed the senial number of the patent document. Note of English Benquage Translation is although a Construction of the Constructi

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

Substitute for form 1449/PTO

Sheet 4 of 6

Complete if Known Application Number 10/676,850 Filing Date September 30, 2003 First Named Inventor Nicholas M. RYAN Art Unit 2435 Examiner Name Paliwal, Yogesh 2222.5440000 Attorney Docket Number

U.S. PATENT DOCUMENTS Publication Date Name of Patentee or Pages, Columns, Lines, Document Number Where Relevant Passages Initials No.1 MM-DD-YYYY Applicant of Cited Document Number-Kind Code<sup>2 (If Known)</sup> or Relevant Figures Appear **US61** 7,225,256 B2 05-29-2007 Villavicencio 7,227,953 B2 06-05-2007 Shida US62 US63 7,233,948 B1 06-19-2007 Shamoon et al. HASII 7,237,002 B1 06-26-2007 Estrada et al. **HS65** 7,290,148 B2 10-30-2007 Tozawa et al. US66 7,308,702 B1 12-11-2007 Thomsen et al. US67 7,313,824 B1 12-25-2007 Bala et al. US68 7.319.752 B2 01-15-2008 Asano et al. US69 7,380,120 B1 05-27-2008 Garcia 11970 7,383,586 B2 06-03-2008 Cross et al 7,386,529 B2 US71 06-10-2008 Kiessig et al. US72 2001/0011254 A1 08-02-2001 Clark 2002/0050098 A1 05-02-2002 Chan **US73** US74 2002/0062240 A1 05-23-2002 Morinville 2002/0077986 A1 **US75** 06-20-2002 Kobata et al. US76 2002/0143906 A1 10-03-2002 Tormasov et al 2002/0157016 A1 10-24-2002 Russell et al. 11977 US78 2002/0176572 A1 11-28-2002 Ananth 2002/0194484 A1 12-19-2002 Bolosky et al. **US79 HS80** 2003/0028610 A1 02-06-2003 Pearson

			FOREIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document County Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
	FP28					Γ
	FP29					Г
	FP30					Г
	FP31					Г
	FP32					Г
	FP33					Г
	FP34		1			
	FP35					Г
	FP36					г

Examiner Signature	Date Considered	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. "Applicants unique citation designation number (optional)." See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. "Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3)." For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

England anguage financiation is advanced by 37 CPR 187 and 198. The information is routined to obtain or retain a benefit by the public which is to fits und by the LISTFO to process) an application. Conferentiality is experted by 38 LIST C22 and 37 CPR 1.4. This collection is a complete which talk 57 C22 and 37 CPR 1.4. This collection is complete, including gathering, propering, and submitting the completed englication form to the LISTFO. Time will very depending upon the individual case. Any comments on the anomal of time you require to complete it form and/or suppositions for reducing this bursten, should be sent to the Chile Thoron Officer. U.S. Pleast and Trademark Office. P.O. Box 1450, Alexandria, V.A. 2231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND 107. Commissions for Pleatents, P.O. Box 1450, Alexandria, V.A. 2231-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND 107. Commissions for Pleatents, P.O. Box 1450, Alexandria, V.A. 2231-1450.

## FIRST SUPPLEMENTAL INFORMATION DISCLOSURE

Substitute for form 1449/PTO

Sheet 5

STATEMENT BY APPLICANT (Use as many sheets as necessary) of

6

Complete if Known		
Application Number	10/676,850	_
Filing Date	September 30, 2003	_
First Named Inventor	Nicholas M. RYAN	
Art Unit	2435	_
Examiner Name	Paliwal, Yogesh	
Attorney Docket Number	2222.5440000	_

			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages
Antous	140.	Number-Kind Code <sup>2 (E'Xnews)</sup>	MM-DD-1111	Applicant of Cited Document	or Relevant Figures Appear
	US81	2003/0115570 A1	06-19-2003	Bisceglia	
	US82	2003/0159066 A1	08-21-2003	Staw et al.	
	US83	2003/0046238 A1	03-06-2003	Nonaka et al.	
	US84	2003/0056139 A1	03-20-2003	Murray et al.	
	US85	2003/0081784 A1	05-01-2003	Kallahalla et al.	
	US86	2003/0081787 A1	05-01-2003	Kallahalla et al.	
	US87	2003/0110266 A1	06-12-2003	Rollins et al.	
	US88	2003/0126434 A1	07-03-2003	Lim et al.	
	US89	2003/0196096 A1	10-16-2003	Sutton	
	US90	2003/0197729 A1	10-23-2003	Denoue et al.	
	US91	2003/0217264 A1	11-20-2003	Martin et al.	
	US92	2003/0226013 A1	12-04-2003	Dutertre	
	US93	2003/0233650 A1	12-18-2003	Zaner et al.	
	US94	2004/0022390 A1	02-05-2004	McDonald et al.	
	US95	2004/0039781 A1	02-26-2004	LaVallee et al.	
	US96	2004/0068524 A1	04-08-2004	Aboulhosn et al.	
	US97	2004/0088548 A1	05-06-2004	Smetters et al.	
	US98	2004/0133544 A1	07-08-2004	Kiessig et al.	
	US99	2004/0158586 A1	08-12-2004	Tsai	
	US100	2004/0193905 A1	09-30-2004	Lirov et al.	

			FOREIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	FP37					
	FP38					Г
	FP39					Г
	FP40					Г
	FP41					Г
	FP42					
	FP43					
	FP44					
	FP45					г

Examiner	Date	-
Signature	Considered	

\*\*EXAMESE: Initial if reference considered, whether or not clostice is in conformance with MPEP 009. Draw like through clastion if not in conformance and Executableman Indiana couple that is the water common classification coupled by the conformance of the con

English language Translation is attached.
This collection of intermedion is required by 27 CFR 187 and 186. The information is required to obtain or retain is brandfully less public which is to fit upon the collection of termination in required by 27 CFR 187 and 186. The information is required by 38 LSC 122 and 27 CFR 14. This collection of the present of the size of the complete including gathering, presents, and submitting the completed registration from to the LSPTO. This will vary depending upon the individual case. Any comments on the amount of they super requires to complete is form endor segments for residual piles burriers, should be sent to the Chief Information Officer, U.S. Patent and Trasferank Office, P.O. Box 1460, Alexandric, V.Z. 2313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner for Patients, P.O. Box 1460, Alexandrics, V.Z. 23231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Commissioner for Patients, P.O. Box 1460, Alexandrics, V.Z. 23231-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

Substitute for form 1449/PTO

## FIRST SUPPLEMENTAL STATEMENT BY APPLICANT

(Use as many sheets as necessary) Sheet 6 of 6

Complete if Known			
Application Number	10/676,850		
Filing Date	September 30, 2003		
First Named Inventor	Nicholas M. RYAN		
Art Unit	2435		
Examiner Name	Paliwal, Yogesh		
Attorney Docket Number	2222.5440000		

OWE THE

			U.S. PATENT DO		
Examiner Initials	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages
личаю	110.	Number-Kind Code <sup>2 (17 Known)</sup>	MINI-DD-1111	Applicant of Cited Document	or Relevant Figures Appea
	US101	2004/0199514 A1	10-07-2004	Rosenblatt et al.	
	US102	2005/0021629 A1	01-27-2005	Cannata et al.	
	US103	2005/0028006 A1	02-03-2005	Leser et al	
	US104	2005/0177858 A1	08-11-2005	Ueda	
	US105	2005/0256909 A1	11-17-2005	Aboulhosn et al.	
	US106	2005/0283610 A1	12-22-2005	Serret-Avila et al.	
	US107	2006/0168147 A1	07-27-2006	Inoue et al.	
	US108	6,584,466 B1	06-24-2003	Serbinis et al.	
	US109				
	USI10				
	USIII				
	US112				
	US113				
	US114				
	US115				
	US116				
	US117				
	US118				
	US119				
	US120				

			FOREIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Coursy Code' Number' Kind Code' (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	FP46					L
	FP47					
	FP48					
	FP49					
	FP50					
	FP51					Г
	FP52					Г
	FP53					Γ
	FP54					

892064 1.DOC

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and EXAMENCE, mail at reference considered, whether or not clation is in conformance with NEPP 690. Daw fine through clation in not in conformance and considered include copy of this form with eact communication to applicant. \*Policy facilities visually cellstone designation number objections.\*Pse Rinfolds Codes of USPTO Patient Documents at www.uspl.cg/ or or NPEP 901 04. \*Enter Office that issued the document, by the visited code (WIPO Standard ST.3).\* For Algurance parient documents, the classified of the year of the region of the conformance must precode the second unusual to place documents of documents of the region of the conformance must precode the second unusual to the potent document. \*Proc Region and Code (NIPO Standard ST.16) if possible.\* Applicant is to place a clack, mark here if finished handless of the conformance of the community of the policy of the conformance of the conforman

English Imprugage Translation is attached.

This collection of Instruments in requiring 14.97 met if 36. The information is required to schein or retain a swarfet by the public which is to fits for interest to the collection of Instruments in requiring to Conferentially is governed by 58. U.S.C. 122 and 27.67 m.1. The collection of Instruments of Conferentially is governed by 58. U.S.C. 122 and 27.67 m.1. The collection is desirable to the first bound to complete, including gallbering, preparing, and submitting the completed anglectation from to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete in form and/or suppositions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Transferrance Conference Conferenc

Substitute for				
	fra tg m			
FIRST S				
INFORM	IATION	DISCI	.OSURE	
STATE	MENT B	Y APP	LICANT	
	(Use as man			
Sheet	1	of	1	

Complete if Known				
Application Number	10/676,850			
Filing Date	September 30, 2003			
First Named Inventor	Nicholas M. RYAN			
Art Unit	2435			
Examiner Name	Paliwal, Yogesh			
Attorney Docket Number	2222 5440000			

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				
	NPL1	Examination Report, completion date June 18, 2008, for European Patent Application No. EP 02 258 532.7-1244, 6 pgs.				
	NPL2	Office Action, dated May 10, 2005, for European Patent Application No. 02258532.7, 5 pgs.				
	NPL3	Office Action, dated December 5, 2006, for European Patent Application No. 02258532.7, 5 pgs.				
	NPL4	BONEH et al., "Hierarchical Identity Based Encryption with Constant Size Ciphertext," Advances in Cryptology- EUROCRYPT 2005, vol. 3493, June 20, 2005, pgs. 440-456.				
	NPL5	BONEH et al., "IBE Secure E-mail," Stanford University, April 8, 2002, http://crypto.stanford.edu/ibe/.				
	NPL6					
	NPL7					
	NPL8					
	NPL9					
	NPL10					

892065 1.DOC

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and

"EXAMINET. Initial if reference considered, whether or not citation is in conformance with MPEP 000. Tow line through clation if not in conformance and rod considered, include copy of this form with next communication to applicant.

Applicant is to place of the pla